HYUNDAI
POWER EQUIPMENT

air series

HPC6060

ENGLISH USER MANUAL

HYUNDAI
POWER EQUIPMENT

LICENSED BY HYUNDAI CORPORATION, KOREA
LICENCIÉ PAR LA CORPORATION HYUNDAI, CORÉE

PRINTSPEC: EN6060-2010v1
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Thank you for purchasing a Hyundai Air Compressor.

Please register your product in order for us to ensure your continuous satisfaction with our product.

This manual covers the safety, operation, and maintenance procedures for the HPC-6060.

All information in this publication is based on the latest product information available at the time of approval for printing. No part of this publication may be reproduced without written permission.

If a problem should arise, please contact us by using the contact information found at the end of this manual.

It is important that this manual be read and fully understood before operating the compressor. Failure to do so may cause serious injuries and/or equipment damage.

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1.1 - GENERAL OPERATION SAFETY

1. Always perform a pre-operation check before using the air compressor.
2. Operators of the unit should always be wearing appropriate approved eye and hearing protection. Under some conditions, long durations of use may contribute to hearing loss.
3. Always operate the air compressor according to the instructions for safe and dependable service.
4. Always clean and properly maintain the equipment after use.
5. To avoid harm, never operate the compressor in an enclosed area.
6. Pay attention to all warning labels and be careful not to touch the marked parts of the compressor during and immediately after operation because they may cause burns.

1.2 - AC SAFETY GUIDELINES

Before connecting the compressor to an electrical device or power cord:

1. Make sure that all parts are in right working order. Faulty devices or power cords can lead to an electrical shock.
2. Turn off the air compressor immediately if the device begins to operate abnormally. Then disconnect the device and investigate the problem.

1.3 - MAINTENANCE SAFETY

1. Turn off the air compressor before performing any maintenance. Otherwise, it can cause severe personal injury and/or death.
2. Allow the air compressor to cool down before performing any maintenance.
3. Only qualified, licensed, and/or certified maintenance personnel with knowledge of fuels, electricity, and machinery hazards should perform maintenance procedures.

1.4 - AIR TANK SAFETY

1. Drain the tank daily or after each use. Make sure to properly drain condensed water from the tank in order to prevent rust and/or thinning of the steel tank.
2. If the tank develops a leak, replace it immediately with a new tank or new compressor outfit.
3. Do not attempt to modify or repair the compressor tank. Never drill, weld, or make any modifications of any kind to the tank or its attachments.
4. Do not attempt to modify the pressure switch, safety valve, or any other components that control tank pressure. The tank is designed to

withstand specific operating pressures. Never make adjustments or substitute parts to alter the factory set operating pressures.

1.5 - ATTACHMENTS AND ACCESSORIES SAFETY

1. Do not exceed the pressure rating of air tools, spray guns, air operated accessories, air tires, hoses, and other inflatables. Exceeding pressure ratings may cause them to explode or become damaged, resulting in serious injury.
2. Make sure to follow the equipment manufacturer's recommendation and never exceed the maximum allowable pressure rating of attachments.
3. Never use the compressor to inflate small, low pressure objects, such as children's toys.

1.6 - RISK OF EXPLOSION OR FIRE

1. Make sure the air compressor is in a well-ventilated area, free of any combustible or flammable materials, gasoline, or solvent vapours.
2. Make sure to keep the compressor at least 20 feet away when spraying flammable materials.
3. Keep all flammable materials in a secure location away from the air compressor.
4. Do not restrict any of the compressor's ventilation openings. This may cause overheating and could cause a fire.
5. Make sure to operate the compressor in an open area at least 3 feet away from any wall or obstruction that could restrict the airflow of the compressor.

1.7 - RISK OF BURSTING

1. Make sure to drain the tank after each use. If the tank develops a leak, replace it immediately with a new tank or new compressor outfit.
2. Do not attempt to modify or repair the tank. Any drilling, welding, or other forms of modification may result in serious injury to you and/or others.
3. Do not adjust regulator to result in output higher than marked maximum pressure of attachment.

1.8 - RISK OF ELECTRICAL SHOCK

1. Do not operate in wet environments.
2. Do not expose the compressor to rain.
3. Make sure the compressor is properly grounded. Failure to ground the unit may increase the risk of electrical shock.

4. All electrical work must be performed by a qualified or licensed/certified electrician.

1.9 - RISK TO BREATHING

1. Always operate the compressor in a well-ventilated area.
2. Wear appropriate safety masks to reduce the risk of inhaling any harmful vapours.
3. Do not breathe compressed air from the compressor. The compressed air is not breathable and may contain carbon monoxide, toxic vapours, and/or solid particles.
4. Sprayed materials such as paint, paint solvents, paint remover, insecticides, weed killers, etc. contain harmful vapours and poisons.

1.10 - RISK OF BURN

1. Do not touch any exposed metal components during or immediately after use of the compressor. The compressor will remain hot for several minutes after it has been shutdown.
2. Do not move the unit while the compressor is running.

1.11 - RISK OF FALLING

1. Make sure that the compressor is in a stable and secure position before operating.

1.12 - RISK OF MOVING PARTS

1. The compressor cycles automatically when the pressure switch is in the ON position.
2. Do not remove and safety guards or covers. If guards and/or covers are damaged or removed, do not operate the compressor.
3. Make sure to release pressure, turn off, and disconnect the compressor before performing any maintenance or repairs.
4. Secure any and all loose clothing, hair, or jewellery that may be caught in the moving parts or the air vents of the compressor.
5. attachments.
6. Never use the compressor to inflate small, low pressure objects, such as children's toys.

SECTION 2 - SPECIFICATIONS

MODEL	HPC-6060
RUNNING HORSEPOWER	1.5 HP
MAX PSI	125 PSI
SCFM @ 40 PSI	3.2 CFM
SCFM @ 90 PSI	2.5 CFM
TANK CAPACITY	6 gal
WEIGHT	25KG

SECTION 3 FEATURES

Pressure Switch

This controls the power to the motor and the cut-in/cut-out pressure settings. Also serves as the Auto-On/Off positions for the unit.

Safety Valve

This valve allows excess tank pressure to escape into the atmosphere. It should open when tank pressure exceeds the maximum pressure rating.

Check Valve

This valve closes when the pump is not in operation in order to retain air pressure in the tank.

Tank Pressure Gauge

Indicates the reserve air pressure in the tank.

Outlet Pressure Gauge

Indicates the outgoing air pressure to the tool or accessory.

Regulator

Controls the air pressure leaving from the tank.

Drain Valve

Used to drain excess moisture and condensation from the tank.

Air Compressor Pump

Oil-free pump that compresses the air.

Pressure Release Valve

This valve automatically releases compressed air momentarily when the compressor reaches cut-out pressure.

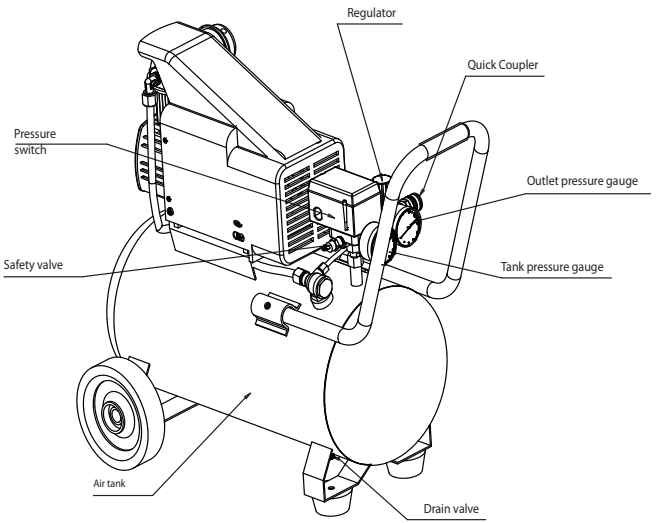
Universal Quick Connect Body

Allows for easy attachment and removal of the air hose.

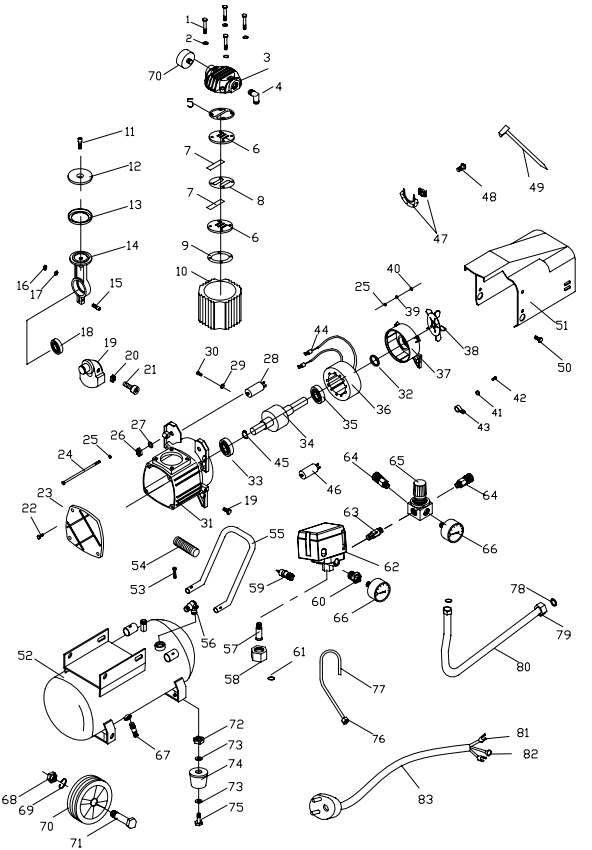
Motor Thermal Overload Protector

If the motor begins to overheat, this protector will shut off the motor.

SECTION 4 - DIAGRAMS



SECTION 5 - PARTS LIST

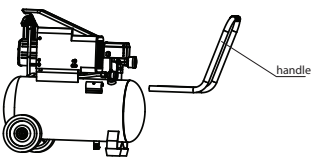


1	M6×80 bolt	42	M4X6 screw
2	6 spring washer	43	Wire clip
3	Cylinder head	44	3.5×50
4	Elbow	45	Snap ring
5	Gasket	46	200μF/125V start capacitor
6	Valve plate	47	Centrifugal switch
7	Valve reed	48	M5×12 screw
8	Valve Gasket	49	4×150 nylon ribbon
9	Cylinder head gasket	50	M5×12 bolt
10	50×49.6 cylinder	51	Plastic cover
11	M6×16 screw	52	24L tank
12	Rod cover	53	M6×30 bolt
13	Piston ring	54	Grip
14	Connecting rod	55	Handle
15	M4×20 screw	56	Check valve
16	M4 nut	57	Adaptor
17	4 spring washer	58	Nut
18	Bearing	59	Safety valve
19	Crankshaft	60	Adaptor
20	M6×40 screw	61	Gasket
21	M5×12 bolt	62	Pressure switch
22	ABS crankcase cover	63	Dual adaptor
23	M5×160 bolt	64	Milton quick coupler
24	Screw	65	Regulator

25	5 flat washer	66	Regulator
26	M8nut	67	Pressure gauge
27	8 lock washer	68	Drain valve
28	0μF/250V running capacitor	69	M10 nut
29	3 spring washer	70	Rubber wheel
30	M3×6 screw	71	Axle
31	Crankcase	72	M5 nut
32	Waves washer	73	5 flat washer
33	Bearing	74	Rubber foot
34	Rotor	75	M5×20 screw
35	104 bearing	76	G1/8 nut
36	Stator	77	Unloading pipe
37	Rear cap	78	ø10 copper cap
38	Fan	79	G3/8 nut
39	5 spring washer	80	Exhaust pipe
40	M5 nut	81	U terminal

SECTION 6 - SETUP

1.



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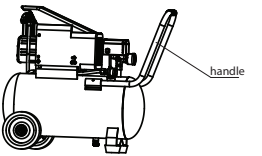

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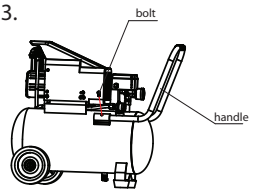

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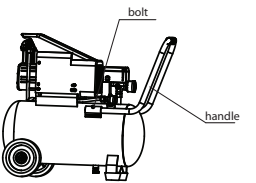

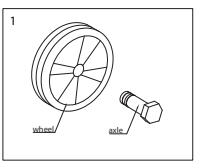

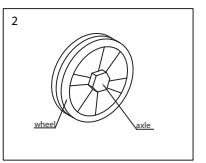

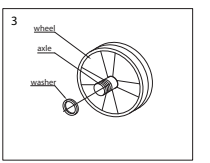

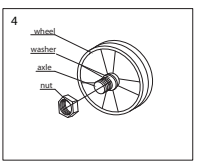

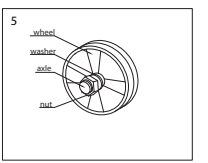

SECTION 7 - START-UP & OPERATION

INITIAL INSPECTION

All air compressors have been inspected carefully before leaving the factory. It is possible that poor handling during transport caused some damage to the compressor. Fully inspect the compressor before use.

1. Inspect the entire unit for any concealed and/or visible damage.
2. Make sure any damaged parts are replaced and any mechanical issues are repaired by a qualified and licensed/certified mechanic.

PRE-START CHECKLIST

1. Make sure that the ON/OFF switch is in the OFF position.
2. Make sure that the tank is fully drained.
3. Make sure that the tank pressure gauge reads 0 PSI.
4. Make sure that the drain valves are closed.
5. Make sure that all covers and safety guards are properly installed and in place.

INITIAL BREAK-IN PROCEDURE

The following instructions should be followed before the first time the compressor is operated in order to optimize the life of the compressor and to help prevent any damage to the unit.

1. Make sure the regulator knob is turned fully counter-clockwise.
2. Plug the power cord into a properly grounded power outlet.
3. Open the drain valve in order to allow air to escape and prevent pressure from building up inside the tank.
4. Turn the ON/OFF switch to the ON position.
5. Allow the compressor to run for approximately 15 minutes.
6. Close the drain valve, allowing pressure to build to the cut-out pressure. The compressor will shut off automatically.
7. Use the compressed air in the tank with an approved attachment or allow it to bleed out.

START-UP

1. Make sure the regulator knob is turned fully counter-clockwise.
2. Plug the power cord into a properly grounded power outlet.
3. Turn the ON/OFF switch to the ON position.
4. Allow the compressor to reach the cut-out pressure. The compressor will shut off automatically.
5. Attach a hose and the desired accessory to the unit.
6. Adjust the regulator knob to the desired pressure.

SHUTDOWN

1. Make sure that the ON/OFF switch is in the OFF position.
2. Unplug the power cord from the outlet.
3. Turn regulator knob counter-clockwise until the regulated pressure gauge reads 0 PSI.
4. Remove the attached hose and accessory.
5. Drain all air and water from the air tank.
6. Once the tank is fully drained, close the drain valve.
7. Store in a safe, dry, non-freezing area.

STORAGE

1. Do not store the compressor in areas that are humid and/or subject to temperature fluctuations. This may result in excess moisture or water forming in the tank, which may affect the compressors cycle times.
2. Do not store in areas with excessive dust.
3. After the ON/OFF switch is in the OFF position, unplug and properly store the power cord in a protected and safe position.

SECTION 8 - MAINTENANCE

IMPORTANCE OF MAINTENANCE

Proper maintenance is important in order to ensure safe, economical, and trouble-free operation. Improper maintenance may cause the air compressor to malfunction and can lead to serious injuries or death.

Shut off the compressor before performing any maintenance. When the engine is running, make sure the area is well ventilated. The compressed air may contain harmful vapours or particles.

Use authorized parts or their equivalent. The use of replacement parts which are not equivalent quality may damage the compressor.

NOTE: Some of these maintenance techniques can be dangerous and must be performed by a qualified technician.

In order to maintain high performance and extend the service life of the compressor, periodical inspection and adjustments should be done based on the

following maintenance schedule:

PROCEDURES	DAILY OR BEFORE EACH USE	AFTER EACH USE	OTHER
General Inspection	X		
Drain condensation in tank(s)	X		
Check for unusual noise/vibration	X		
Check for air leaks	X		
Check safety relief valve	X		
Inspect air filter, replace if necessary			Approx. every 100 hours
Clean exterior of compressor		X	

NOTICE:

1. Service more frequently when used in dusty areas.
2. Should be serviced by an authorized service dealer.
3. Must be serviced by an authorized Hyundai Service Dealer. Failure to do so will void the warranty.

SECTION 9 - TROUBLESHOOTING

Many troubleshooting procedures present hazards which can result in severe personal injury or death. Only trained and experienced service personnel with knowledge of fuels, electricity, and machinery hazards should perform service procedures. Review Safety Precautions.

A hot compressor can cause severe burns. Always allow the compressor set to cool before performing any maintenance service.

PROBLEM	CAUSE	CORRECTION
Compressor does not start	• Blown fuse or circuit breaker tripped • Loose electrical connections • Overheated motor	• Check for cause and replace or reset • Check wiring connections • Use reset button • Wait for automatic reset
Compressor does not supply enough pressure to operate	• Air leak in safety valve • Restricted air filter • Defective check valve	• Check valve manually – pull upward on rings. If condition persists, replace valve • Clean or replace air filter • Replace check valve
Excessive tank pressure; Safety relief valve releasing	• Defective pressure switch or improper adjustment	• Check for proper adjustment and if problem persists, replace pressure switch
Moisture in discharged compressed air	• Condensation in air tank caused by humidity • Compressor located in damp or humid area	• Drain tank • Relocate the compressor • Purchase In-Line air filter system

Compressor does not or is slow to come up to speed	• Defective motor or pump • Defective pressure switch • Use of an extension cord	• Contact Hyundai Power Customer Service • Replace the pressure switch • If possible, eliminate extension cord
Compressor runs excessively hot	• High duty cycles • Compressor unit cannot supply enough air • Extremely dusty atmosphere	• Run compressor for lighter cycles • If accessory's required CFM is higher than pressure supply, larger compressor is required • Relocate the compressor
Excessive noise/ vibration during operation	• Check valve is loose or broken • Defective motor or pump	• Clean or replace check valve • Contact Hyundai Power Customer Service
Excessive starting and stopping	• Hose, hose connections, or attached accessory leaks • Condensation in air tank, high humidity • Fittings are not tight enough • Defective pressure switch • Rusted or damaged air tank	• Check for leaks and replace if necessary • Drain tank • Tighten any loose fittings • Replace defective switch • Replace tank immediately. Do not attempt to repair the tank
Air leaks	• Fittings not tight enough • Air leaks at hose or accessory • Rusted or damaged tank	• Tighten any loose fittings • Check for leaks and replace if necessary • Replace tank immediately. Do not attempt to repair the tank

SECTION 10 - GLOSSARY

CFM – Cubic Feet per Minute

Cut-In Pressure – The tank's lowest pressure point at which the motor restarts automatically to build pressure.

Cut-Out Pressure – The tank's maximum pressure point at which the motor shuts off automatically.

Cycle – The series of steps that a compressor performs.

Cycle Time – The amount of time for a compressor to complete one cycle.

HP – Horsepower required at the compressor shaft to perform.

PSI – Pounds per Square Inch; A unit of measure of pressure.

Regulator – Device used to change the pressure from the compressor.

SCFM – Standardized Cubic Feet per Minute; a measure of airflow

SECTION 11 - WARRANTY

Midland International Inc.
26 Huddersfield Rd. Unit #2
Etobicoke, Ontario
Canada, M9W 5Z6

This product is warranted to be free of defects in materials and workmanship for one year from the original date of purchase. This limited warranty guarantees that any defective parts will be repaired or replaced, at the warrantor's discretion, at no cost, including diagnosis and replacement parts.

1 Year Limited Warranty:

The warranty coverage is continual from the initial date of purchase and does not restart at anytime under any circumstances. This limited warranty is valid only when the air compressor receives all necessary preventative maintenance, as described in the Hyundai Air Compressor User Manual. The repair or replacement of a compressor will take place within a reasonable period of time during normal business hours.

All repaired and replacement parts shall be warranted for 90 days after the initial date of installation or purchase.

Limitations of Remedies and Disclaimers

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE OF AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER WARRANTY, WHETHER EXPRESSED OR IMPLIED.

Midland International Inc. disclaims any responsibility for any indirect, incidental, or consequential loss or damage caused by any defects in material or workmanship.

This limited warranty will be voided if the compressor is used for commercial purposes.

All expenses incurred in maintaining and replacing parts for the compressor shall be incurred by the purchaser. This warranty coverage does not include parts affected by accident and/or collision, corrosion or rust, normal wear, use in an ap-

plication for which the product was not intended, service from an unauthorized service dealer, or any other misuse, neglect, incorporation or use of unsuitable attachments and/or parts. Under this warranty, the warrantor is not obligated to bear any transportation fees of any product to/from an authorized service dealer. Unauthorized alteration, installation, or any cause other than defects in material or workmanship of the product will not be covered under this warranty.

Not covered by this Limited Warranty:

1. Normal motor/pump wear
2. Damage caused by a lack of maintenance as described in the Hyundai User Manual.
3. Damage caused by accidents, improper installation or storage.
4. Damage caused by water ingestion, submersion, or external water damage.
5. Damage or non-performance caused by operation of the compressor set in a marine application.
6. Damage caused by operation with improper pressure, conditions, or modifications contrary to published specifications.
7. Items not supplied by Hyundai, such as, but not limited to, external wiring, filters, etc.
8. Repairs made during the warranty period without first obtaining a case number from Hyundai.

Product Registrations

Product registration is required for all product support and warranty coverage. The purchaser must also provide the original proof of purchase. The owner's registration, found in the user manual, must be completed and mailed. You can also register online at www.hyundaipower.ca. You should keep your receipt for proof of purchase.

Warranty Claim Procedure

Warranty service must be performed by a Hyundai authorized service dealer. If you feel your compressor is malfunctioning due to a defect or misuse, simply contact our customer support center for technical advice, a warranty claim, or general information.

Do not return your compressor to the place of purchase or repair. MIDLAND INTERNATIONAL INC. MUST BE CONTACTED TO PROVIDE A CASE NUMBER

BEFORE ANY WARRANTY WORK CAN BEGIN.

To obtain warranty service, contact our customer support center:
Toll Free: 1-877-528-3772
E-mail: support@Hyundaipower.ca
Website: www.Hyundaipower.ca